


SWBAT

Describe the forces involved in terminal velocity?

Sep 4-7:31 AM

SECA CP Physics
Friday 4 March 2016

Welcome!!!



PEDs with Passing

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Room C-244

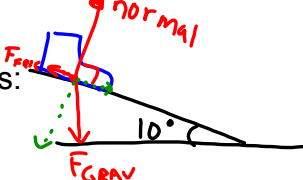
Centering
(circle)

- Show me SchoolView if you want phone in class...

Opening Activity - Quick Write:

Draw a force diagram for Mythbusters:

A shoe is on a flat board covered in lube and the board is tilted to 10 degrees -- what forces are acting on the shoe?



Circle: Who was your hero when you were little?

Pizza party?

Sep 7-7:04 AM

What we should have solid:

Memorize our ~~5~~⁸ vocab cards, units, vector or not, definition, formula

Be able to answer distance vs displacement questions

Be able to make measurements of real-life motion. Know what is likely to make timing things difficult and how to get more reliable timing results

Be able to convert between miles and meters, between hours, minutes, and seconds

Be able to calculate speed = dist/time and velocity = disp/time

Know what all of the symbols in the UAM equations stand for and mean

Be able to turn a UAM word problem into a list of knowns and unknowns

Be able to pick the equation with those 4 things in it

Be able to put the knowns into that equation

(Be able to solve for the unknown)

→ PROJECTILES: v_x IS CONSTANT; $a_y = -9.8 \text{ m/s}^2$ ^{v_y CHANGES} PG 42

PG 43 TIME, Δt , CONNECTS x & y

PG 49 VECTORS INTO x & y , ADD VECTORS
SOH - CAH - TOA

PG 59 DIFFERENCE BETWEEN MASS & WEIGHT

PG 61 NET FORCE

PG 63 FREE BODY DIAGRAMS

$$F = m \cdot a$$

QW every day to review - gather responses to front board.

Dec 4-9:15 AM

Unit	Chapters	Date
Left-Side Items	Page	Right-Side Items
REFLECTION ON NOTES	2	EDITED ADAM SAUGE
HOW FAR FROM BRIDGE	4	"FORT STUEBEN"
REFLECTION ON NOTES	6	HAWK: BASE UNITS
PR: DISTANCE & DISPLACEMENT	8	HAWK: FP DISPLACEMENT
DIAGRAM & STEPS	10	TIMING & ERROR
SUMMARY OF TIMING	12	HOW TO BUILD A TABLE
PR: CONVERTING SLOWS	14	HAWK: FP CONVERSIONS
PR: VELOCITY & SPEED	16	HAWK: FP SPEED & VELOCITY
SPEED WORD PROBLEMS	18	ALGEBRA FOR PHYSICS
LAB JOURNAL 10/7	20	LAB JOURNAL 10/8
...	...	HAWK: FP GRAPH POSITION
LAB JOURNAL 10/12	24	EXPERIMENT RUBRIC
26 USE FOR PROJECT	22	
OBSERVATIONS OF ORF	28	FP: INTRO TO ACC.
REVIEW FOR TEST	30	BALL ON RAMP
VECTORS, DIRECTION	32	FP: BASIC ACC EXAMPLE
PRACTICE UAM	34	FP: INTRO TO UAM
FALLING OBJECTS PACKET	36	FP: INTRO TO FREEFALL
MY FREE FALL WORD PROBLEM	38	3-ACT FALLING GLOWSTICK
Toy popper experiment	40	Free fall class solutions
Launched vs. Dropped	42	FP: INTRO TO PROJECTILE MOTION
PROJECTILE SIMULATOR	44	FP: PROJ. MOTION PROBLEM
PROJ. L PRACTICE PROBS.	46	PROJECTILES PRACTICE
OUR VECTOR PRACTICE	48	FP - VECTOR COMPONENTS
VECTOR PACKET	50	NOTES ON ADDING VECTORS
MEASURE LAUNCHER	52	NOTES ON FINDING v_f & S_2
OBSERVATIONS OF OBJECTS	54	RULES OF PHYSICS NOTES
NEWTON'S 1 ST LAW	58	CONFUSING QUANTITIES
WKSHJ: 2-1	60	NET FORCE
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PACKET: F.B.D.	62	FREE-BODY DIAGRAMS
DATA/MEASURING CART	64	FINDING FRICTION ON CART
MORE PROJECT?	66	MYTHBUSTERS
VECTOR ADDITION COMPONENTS	68	VECTOR EXAMPLE

Sep 5-9:09 AM

PG 69

Vector examples:

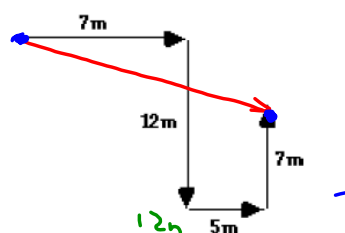
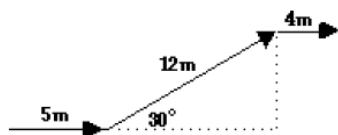


Diagram showing a red vector R and its components. The horizontal component is 12m (labeled with a green bracket) and the vertical component is 5m (indicated by a dashed line). The equation $12^2 + 5^2 = R^2$ is written in green.

x	y
+7m	+7m
+5m	-12m
12m	-5m



Mar 4-8:59 AM